

## Water-Data Report 2008

**401916074324201 Local number 231371- MW113**

Northern Atlantic Coastal Plain aquifer system  
 Undifferentiated Holocene, Pleistocene, Pliocene, And Miocene

Middlesex County, NJ

LOCATION.--Lat 40°19'16.4", long 74°32'42.3" referenced to North American Datum of 1983, Cranbury Township, Middlesex County, NJ, Hydrologic Unit 02030105.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 23 ft. Upper casing diameter 2 in; top of first opening 13 ft, bottom of last opening 23 ft.

DATUM.--Land-surface datum is 90 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--Water years 2003, 2008.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 10. Agricultural Land Use Indicator.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the New Jersey Department of Environmental Protection.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Depth to water level, feet below LSD	Pump or flow rate, instantaneous gal/min	Turbidity period prior to sampling, minutes	Turbidity, white light, 90+/-30 minutes	Barometric pressure, NTRU	Dissolved oxygen, mm Hg
Jul 01...	1105	QC - Artificial, field blank	--	--	--	--	--	--
01...	1220	Ground water, regular	8.80	.25	58	8.2	754	1.9

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 14

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Disolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specfic conductance, wat unf µS/cm (00095)	Temperature, wat unf water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, mg/L (00915)	Magnesium water, mg/L (00925)	Potassium water, mg/L (00935)	Sodium water, mg/L (00930)	Alkalinity, wat flt inf tit (39086)	Bicarbonate, wat flt infl pt titr., mg/L CaCO3 (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
Jul 01...	--	--	--	--	.05	<.020	--	<.12	--	--	--	--	--
01...	19	4.7	264	15.8	66	16.0	6.31	5.21	13.8	2	4	28.2	E.08

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Silica, water, filtrd, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, filtrd, mg/L (00945)	Residue water, filtrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, filtrd, mg/L as N (00623)	Ammonia + water, filtrd, mg/L as N (00608)	Nitrate + nitrite water, filtrd, mg/L as N (00631)	Nitrite water, filtrd, mg/L as P (00613)	Ortho- phosphate, water, filtrd, mg/L as P (00671)	Organic water, filtrd, mg/L (00681)	Alum- inum, water, filtrd, μg/L (01106)	Anti- mony, water, filtrd, μg/L (01095)	Arsenic water, filtrd, μg/L (01000)
<b>Jul</b>													
01...	E.01	--	--	--	--	--	--	--	--	--	--	<.16	<.14
01...	11.8	27.6	E154	169	.18	<.020	9.57	<.002	E.004	1.2	136	<.14	.15

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Barium, water, filtrd, μg/L (01005)	Beryll- ium, water, filtrd, μg/L (01010)	Boron, water, filtrd, μg/L (01020)	Cadmium water, filtrd, μg/L (01025)	Chrom- ium, water, filtrd, μg/L (01030)	Copper, water, filtrd, μg/L (01040)	Iron, water, filtrd, μg/L (01046)	Lead, water, filtrd, μg/L (01049)	Mangan- ese, water, filtrd, μg/L (01056)	Mercury water, filtrd, μg/L (71890)	Nickel, water, filtrd, μg/L (01065)	Selen- ium, water, filtrd, μg/L (01145)	Silver, water, filtrd, μg/L (01075)
<b>Jul</b>													
01...	<.4	<.01	<6	<.04	E.09	<1.0	<8	.09	E.2	<.010	E.20	<.04	<.1
01...	159	.53	25	.75	.73	E.81	433	E.26	286	<.010	4.1	.14	<.1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Thall- ium, water, filtrd, μg/L (01057)	Zinc, water, filtrd, μg/L (01090)	1-Naph- thol, water, filtrd, 0.7u GF (49295)	2,6-Di- ethyl- aniline water, filtrd, 0.7u GF (82660)	2'6'- diethyl acet- anilide wat flt μg/L (61618)	CIAT, water, filtrd, μg/L (04040)	-6- methyl- aniline water, filtrd, μg/L (61620)	2-Ethy- l- aniline water, filtrd, μg/L (61625)	3,4-Di- chloro- aniline water, filtrd, μg/L (61627)	3,5-Di- chloro- aniline water, filtrd, μg/L (61633)	4- Chloro- 2methyl phenol water, filtrd, μg/L (49260)	Aceto- chlor, water, filtrd, μg/L (46342)	alpha- Endo- sulfan, water, filtrd, μg/L (34362)
<b>Jul</b>													
01...	<.04	<1.8	--	--	--	--	--	--	--	--	--	--	--
01...	E.03	21.4	<.04	<.006	<.010	E.076	<.010	<.006	<.008	<.005	<.006	<.006	<.006

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 6 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Atra-zine, water, fltrd, μg/L (39632)	Azin-phos-methyl oxon, water, fltrd, μg/L (61635)	Azin-phos-methyl, water, fltrd, 0.7u GF μg/L (82686)	Ben-flur-alin, water, fltrd, 0.7u GF μg/L (82673)	Car-baryl, water, fltrd, 0.7u GF μg/L (82680)	Carbo-furan, water, fltrd, 0.7u GF μg/L (82674)	Chlor-pyrifos oxon, water, fltrd, μg/L (61636)	Chlor-pyrifos water, fltrd, 0.7u GF μg/L (38933)	cis-Per-methrin water, fltrd, 0.7u GF μg/L (82687)	cis-Propi-conazole, water, fltrd, μg/L (79846)	Cyana-zine, water, fltrd, μg/L (04041)	Cyflu-thrin, water, fltrd, μg/L (61585)	Iambda-Cyhalo-thrin, water, fltrd, μg/L (61595)
<b>Jul</b>													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	.127	<.04	<.120	<.010	<.060	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 7 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Cyper-methrin water, fltrd, 0.7u GF μg/L (61586)	DCPA, water, fltrd, 0.7u GF μg/L (82682)	Desulf-inyl-fipro-nil, water, fltrd, μg/L (62170)	Diazi-non, water, fltrd, μg/L (39572)	Dicrop-tophos, water, fltrd, μg/L (38454)	Diel-drin, water, fltrd, μg/L (39381)	Dimeth-oate, water, fltrd, 0.7u GF μg/L (82662)	Disulf-ton, water, fltrd, 0.7u GF μg/L (61640)	Disulf-foton, water, fltrd, 0.7u GF μg/L (82677)	Endo-sulfan, water, fltrd, 0.7u GF μg/L (61590)	EPTC, water, fltrd, 0.7u GF μg/L (82668)	Ethion-monoxon, water, fltrd, μg/L (61644)	Ethion, water, fltrd, μg/L (82346)
<b>Jul</b>													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	<.014	<.003	<.012	<.005	<.08	.011	<.006	<.01	<.04	<.022	<.002	<.02	<.006

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 8 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Etho-prop, water, fltrd, 0.7u GF μg/L (82672)	Fenami-phos, sulfone, water, fltrd, μg/L (61645)	Fenami-sulf-oxide, water, fltrd, μg/L (61646)	Fenami-phos, water, fltrd, μg/L (61591)	Desulf-inyl-fipro-nil, water, amide, wat flt μg/L (62169)	Fipro-nil, water, fltrd, μg/L (62167)	Fipro-nil, water, fltrd, μg/L (62168)	Fipro-nil, water, fltrd, μg/L (62166)	Fonofos, water, fltrd, μg/L (04095)	Hexa-zinone, water, fltrd, μg/L (04025)	Ipro-dione, water, fltrd, μg/L (61593)	Isofen-phos, water, fltrd, μg/L (61594)	Mala-oxon, water, fltrd, μg/L (61652)
<b>Jul</b>													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	<.012	<.053	<.20	<.03	<.029	<.013	<.024	<.020	<.010	<.008	<.01	<.006	<.020

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 9 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Mala-	Meta-	Methid-	Methyl			Moli-			Oxy-	Pendi-	Phorate	Phorate
	thion,	laxyl,	athion,	Methyl	para-	thion,	Metola-	nate,	Myclo-	fluor-	meth-	oxon,	water,
	water,	water,	water,	para-	oxon,	water,	chlor,	buzin,	butanil	fen,	alin,	water,	filtrd
	filtrd,	filtrd,	filtrd,	filtrd,	0.7u GF	water,	filtrd,	filtrd,	filtrd,	filtrd,	0.7u GF	filtrd,	0.7u GF
	µg/L	µg/L	µg/L	µg/L	µg/L	(82667)	µg/L						
	(39532)	(61596)	(61598)	(61664)	(82667)	(39415)	(82630)	(82671)	(61599)	(61600)	(82683)	(61666)	(82664)
<b>Jul</b>													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	<.016	<.007	<.004	<.01	<.008	.136	<.012	<.003	<.010	<.006	<.012	<.03	<.040

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 10 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Phosmet	Phosmet	Promo-	Promo-	Propy-	Pro-	Propar-	Tebu-	Teflu-	Ter-	Ter-	Ter-	
	oxon,	water,	Prometon,	Prometryn,	zamide,	panil,	gite,	Sima-	thiuron	bufos	bufos,	terbu-	butylyl-
	water,	water,	water,	water,	water,	water,	water,	water,	water,	oxon	water,	azine,	water,
	filtrd,	filtrd,	filtrd,	filtrd,	0.7u GF	0.7u GF	0.7u GF	filtrd,	0.7u GF	filtrd,	filtrd,	filtrd,	0.7u GF
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	(61668)	(61601)	(04037)	(04036)	(82676)	(82679)	(82685)	(04035)	(82670)	(61606)	(61674)	(82675)	(04022)
<b>Jul</b>													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	<.05	<.008	<.01	<.006	<.004	<.006	<.04	<.006	<.02	<.003	<.04	<.02	<.01

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 11 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Thio-	trans-	Tri-	1,1,1-	CFC-113	1,1-Di-	1,1-Di-	1,2-Di-	1,2-Di-	1,2-Di-	1,3-Di-	1,4-Di-	
	bencarb	Propi-	flur-	Tri-		chloro-	ethene,	benzene,	ethane,	propane	benzene,	benzene	benzene
	water,	conca-	Tribu-	alin,	ethane,	chloro-	ethene,	benzene,	ethane,	water,	unfiltrd	water,	unfiltrd
	filtrd,	zole,	phos,	water,	0.7u GF	unfiltrd							
	0.7u GF	filtrd,	filtrd,	filtrd,	0.7u GF	µg/L							
	µg/L	µg/L	µg/L	µg/L	(82661)	(82661)	(34506)	(77652)	(34496)	(34501)	(34536)	(32103)	(34541)
	(82681)	(79847)	(61610)	(82661)	(34506)	(77652)	(34496)	(34501)	(34536)	(32103)	(34541)	(34566)	(34571)
<b>Jul</b>													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	<.010	<.02	<.035	<.009	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 12 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Benzene water, unfltrd	Bromo-di-chloro-methane water, unfltrd	Tri-bromo-methane water, unfltrd	Chloro-benzene water, unfltrd	cis-1,2-Di-chloro-ethene, water, unfltrd	Di-bromo-chloro-methane water, unfltrd	Di-fluoro-methane water, unfltrd	Di-chloro-methane water, unfltrd	Di-ethyl ether, water, unfltrd	Diisopropyl ether, water, unfltrd	Ethyl-benzene water, unfltrd	Methyl-tert-pentyl ether, water, unfltrd	meta-+ para-Xylene, water, unfltrd
	µg/L (34030)	µg/L (32101)	µg/L (32104)	µg/L (34301)	µg/L (77093)	µg/L (32105)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (34371)	µg/L (50005)	µg/L (85795)
<b>Jul</b>													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	<.1	<.1	<.2	<.1	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 13 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	o-Xylene, water, unfltrd	t-Butyl ethyl ether, water, unfltrd	Methyl t-butyl ether, water, unfltrd	Tetra-chloro-ethene, water, unfltrd	Tetra-chloro-methane water, unfltrd	trans-1,2-Di-chloro-ethene, water, unfltrd	Tri-chloro-fluoro-methane water, unfltrd	Tri-chloro-methane water, unfltrd	Vinyl chloride, water, unfltrd	Di-chlor-vos, water, fltrd,			
	µg/L (77135)	µg/L (77128)	µg/L (50004)	µg/L (78032)	µg/L (34475)	µg/L (32102)	µg/L (34010)	µg/L (34546)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)	µg/L (38775)
<b>Jul</b>													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	<.1	<.1	<.1	<.2	<.1	<.2	<.1	<.1	<.1	<.2	<.1	<.2	<.01

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 14 of 14

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Alpha radioac 30 day, wat flt Th-230, pCi/L (62639)	Alpha radioac 72 hr, wat flt Th-230, pCi/L (62636)	Beta radioac 30 day, wat flt Cs-137, pCi/L (62645)	Beta radioac 72 hr, wat flt Cs-137, pCi/L (62642)
<b>Jul</b>				
01...	--	--	--	--
01...	.5	1.0	4.8	5.6